

Paper Reference 9MT0/03
Pearson Edexcel
Level 3 GCE

Total Marks

Music Technology

Advanced

COMPONENT 3: Listening and Analysing

Wednesday 24 May 2023 – Afternoon

Time: 1 hour 30 minutes

**In the boxes below, write your name,
centre number and candidate number.**

Surname					
Other names					
Centre Number					
Candidate Number					

Y74002A

YOU MUST HAVE

**2023 Pearson audio files, headphones
and computer with media playing
software**

YOU WILL BE GIVEN

Diagram Booklet

INSTRUCTIONS

Answer ALL questions.

**Answer the questions in the spaces
provided in this Question Paper or on the
separate diagrams – there may be more
space than you need.**

**Access to music production software or
the internet is not permitted.**

Turn over

INFORMATION

The total mark for this paper is 75.

The marks for EACH question are shown in brackets – use this as a guide as to how much time to spend on each question.

There may be spare copies of some diagrams in case you need them.

ADVICE

Read each question carefully before you start to answer it.

Try to answer every question.

Check your answers if you have time at the end.

SECTION A

Answer ALL questions.

Write your answers in the spaces provided.

Some questions are multiple choice. Write the letter(s) of your chosen answer(s) in the box(es) provided.

Turn over

**1. Goo Goo Dolls:
Black Balloon (1998)
Track 1**

**(a) Name TWO modulation effects
heard on the electric guitars
before the vocal enters.
(2 marks)**

1 _____

2 _____

(continued on the next page)

Turn over

1. continued.

(b) The lead vocal is slightly sibilant.

**Identify ONE process that could
be used to reduce the sibilance.**

(1 mark)

(continued on the next page)

Turn over

1. continued.

- (c) (i) Identify ONE other capture problem heard in the lead vocal between 0 : 29–0 : 38.
(1 mark)**

(continued on the next page)

1. (c) continued.

(ii) Identify TWO ways the
problem heard in (c)(i) could
be avoided during capture.

(2 marks)

1

2

(continued on the next page)

Turn over

1. continued.

(d) Excluding EQ, describe acoustic guitar capture and processing between 0 : 19–1 : 03.

(4 marks)

Answer lines continue on the next page.

Turn over

10

1. (d) continued.

(Total for Question 1 = 10 marks)

Turn over

2. Lipps Inc.: Funkytown (1979)
Track 2

- (a) (i) Excluding panning, identify ONE way the reverb on the cowbells changes at 0 : 59 when compared to the previous section.**
(1 mark)
-
-

(continued on the next page)

Turn over

2. (a) continued.

**(ii) State TWO ways of
recreating the change heard
in (a)(i) using a DAW.**

(2 marks)

1

2

(continued on the next page)

Turn over

2. continued.

(b) Describe the amplitude envelope settings used on the lead synthesiser first heard at 0 : 04.

(3 marks)

Answer lines continue on the next page.

Turn over

2. (b) continued.

(continued on the next page)

Turn over

2. continued.

(c) A vocoder is used on the vocals from 0 : 11–0 : 24. Describe how a vocoder works.

(4 marks)

Answer lines continue on the next page.

Turn over

2. (c) continued.

(Total for Question 2 = 10 marks)

Turn over

3. Nelly Furtado: Do It (2006)
Track 3

(a) Identify the most likely quantise value used on the kick drum in the introduction (0 : 01–0 : 16).

A $1/4$

B $1/4$ triplet

C $1/8$

D $1/8$ triplet

Answer

(1 mark)

(continued on the next page)

Turn over

3. continued.

**(b) Refer to the diagram for Question 3(b) in the Diagram Booklet. Draw the TWO missing notes from the first four bars of the bass line (0 : 01–0 : 09).
(2 marks)**

(continued on the next page)

Turn over

3. continued.

**(c) Describe the production techniques used on the clap sound in the introduction (0 : 01–0 : 16).
(2 marks)**

(continued on the next page)

Turn over

3. continued.

(d) The song uses a synthesiser riff produced using an 8-bit chip from a 1980s home computer, heard first at 0 : 17. Describe how this technology is likely to affect the sound.

(3 marks)

Answer lines continue on the next page.

Turn over

3. (d) continued.

(continued on the next page)

Turn over

3. continued.

**(e) Describe the sampler technique
used on the vocals between
3:21–3:36.**

(2 marks)

(Total for Question 3 = 10 marks)

Turn over

4. The Band: The Weight (1968)
Track 4

- (a) Describe how lead vocal
production has changed since
the song was recorded in 1968.
(6 marks)**

**Answer lines continue on the
next page.**

Turn over

4. (a) continued.

(continued on the next page)

Turn over

4. continued.

(b) This recording is taken from a remastered compilation released in **2000**. Explain **TWO** types of EQ or filter that may have been used in the remastering process. (4 marks)

Answer lines continue on the next page.

1

Turn over

4. (b) continued.

2

(Total for Question 4 = 10 marks)

TOTAL FOR SECTION A = 40 MARKS

Turn over

SECTION B

**Answer both Questions 5 and 6.
Write your answers in the spaces
provided.**

Turn over

5. Van Halen: Jump (1983)
Track 5

and

Paul Anka: Jump (2005)
Track 6

**Evaluate the production techniques
used in each version of the song.**

(continued on the next page)

Turn over

5. continued.

Your response may consider the following production aspects:

- **Capture, production approach and music style**
- **Synthesis**
- **EQ and filtering**
- **Dynamic processing**
- **Pan and stereo field**
- **Effects.**

(15 marks)

Answer lines continue on the next ten pages.

Turn over

5. continued.

Turn over

5. continued.

Turn over

5. continued.

Turn over

5. continued.

Turn over

5. continued.

Turn over

5. continued.

Turn over

5. continued.

Turn over

5. continued.

Turn over

5. continued.

Turn over

5. continued.

(Total for Question 5 = 15 marks)

Turn over

6. Michael Kiwanuka: Hero (2019)
Track 7

This song uses lo-fi and retro production techniques to degrade sound quality and simulate earlier recording eras.

(continued on the next page)

Turn over

6. continued.

Evaluate:

- the use of lo-fi and retro production techniques within Michael Kiwanuka's **Hero**
- the wider impact that lo-fi and retro production techniques have had on recorded music.

(20 marks)

Answer lines continue on the next eleven pages.

Turn over

6. continued.

Turn over

6. continued.

Turn over

6. continued.

Turn over

6. continued.

Turn over

6. continued.

Turn over

6. continued.

Turn over

6. continued.

Turn over

6. continued.

Turn over

6. continued.

Turn over

6. continued.

Turn over

6. continued.

(Total for Question 6 = 20 marks)

TOTAL FOR SECTION B = 35 MARKS

TOTAL FOR PAPER = 75 MARKS

END OF PAPER
